Definition Install iw60 EFX TANNOY.







Product Description

The Definition Install iw60 EFX is a multi purpose in wall surround / effects speaker designed around the unique Tannoy Dual Concentric[™] drive unit. The speaker is conveniently configurable between two modes of operation: 'Cinema Mode', where the two optimally aligned 100mm (4.00") Dual Concentric[™] drivers generate a wide and even flow of acoustic energy over a large area for a diffuse room filling ambience and the direct radiating 'Music Mode', where the 165mm (6.50") constant directivity Dual Concentric[™] driver produces a more localised and focused sound, highlighting the distinct separation afforded by modern programme material. In Music mode the direct radiating pattern is auto switched using a 12V trigger.

Claims are made that having more drivers is better. While multiple drivers are needed to cover the full frequency spectrum it is a fact that a discrete woofer and tweeter array will produce a large null at the crossover frequency when you move through the vertical plane. In a product concept such as the iw60 EFX, using three sets of discrete drivers would cause this negative acoustic effect to occur three times in a single cabinet; something no amount of DSP could compensate for. The point source Dual Concentric™ units in the Tannoy iw60 EFX ensure that no such acoustical anomalies occur.

The Dual Concentric[™] is effectively two drivers properly merged into one where, unlike ordinary drive units, the high frequency unit is positioned on the back of the low frequency driver. As a result they are on same axis, so ensuring that sound energy is effectively propagated from the same point and delivered through the centre of the low frequency cone as true point source. Such integration optimises reproduction quality by providing a constant time delay over the frequency spectrum, exceptional transient performance, wide dispersion and superior harmonic alignment; all of which delivers to the listening position a natural, clean and integrated sound with greatly enhanced intelligibility, sound staging and dynamics.

Characteristic of the Dual Concentric[™] design is a very wide 'sweet spot' with an exceptionally even response throughout the listening area, as well as an extraordinary transient response; reasons enough for this phase accurate Tannoy designed drive unit to have been the choice of professional studio engineers all over the world for many years.

The heavily braced and comprehensively damped MDF cabinet is supplied with a paintable, flush mounting grille designed to blend seamlessly into any architectural space. A unique isolation mounting system optimises low frequency performance by controlling unwanted resonances within the install structure. A mounting frame is available as an optional pre-installation accessory to fit into standard construction 2" x 4" stud walls.

The exceptionally versatile, high power handling iw60 EFX is able to extract the full potential of contemporary multi-channel soundtracks; an in wall surround / effects speaker designed to reproduce the same bandwidth and sound pressure levels as the main speakers.

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Features

- 165mm (6.50") high sensitivity, point source and constant directivity Dual Concentric[™] drive unit (music mode)
- Two 100mm (6.50") Dual Concentric[™] drive units in dipole configuration (cinema mode)
- Constant time delay over the frequency spectrum
- · Exceptional transient performance
- 90 degree conical dispersion (music mode 120 degrees horizontal by 90 degrees (cinema mode)
- Superior harmonic alignment
- · Natural, clean and integrated sound
- · Enhanced intelligibility, sound staging and dynamics
- Recommended amplifier power 100 to 200W @ 8 Ohms
- Sensitivity 90dB (1W = 2.83V for 8 Ohms)
- Maximum SPL 117dB average
- Rugged construction MDFclosed enclosure, internally braced and finished with textured black paint
- Isolation mounting system minimises energy transfer to the wall material
- · Optional pre-installation frame available

Applications

- Media rooms
- Home theatre
- Boardrooms
- High end marine interiors

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TECHNICAL SPECIFICATIONS

System		Definition Ins	tall iw60 EFX			
Frequency Respor	ISE ⁽¹⁾⁽⁴⁾	110Hz - 23kH				
Frequency Range	(1)(4)	74Hz - 27kHz	74Hz - 27kHz			
System Sensitivity	(1W @1m) ⁽	²⁾⁽⁴⁾ 90dB (1W = 2.8	3V for 8 Ohms)			
Nominal Coverage	Angle	90 degrees con in music mode	90 degrees conical in music mode			
Coverage Angle (1	kHz to 6kH	, 0	120 degrees horizontal x 90 degrees in cinema mode			
Directivity Factor (Q)	3.50 averaged 1	3.50 averaged 1kHz to 6kHz			
Directivity Index (D	DI)	5.50 averaged 1	IkHz to 6kHz			
Rated Maximum S Average Peak	PL ⁽³⁾	110dB 116dB				
Power Handling ⁽³⁾ Average Programme Peak		100W 200W 400W				
Recommended Am	plifier Pow	/er 200W @ 8 Ohm	IS			
Nominal Impedance			8 Ohms in music mode 4 Ohms in cinema mode			
Distortion						
10% Full Power (8. 250Hz 1kHz 10kHz 10kHz 1% Full Power (2.8		2nd Harmonic 1.84% 0.34% 0.91% 2nd Harmonic	3rd Harmonic 0.30% 0.61% 0.17% 3rd Harmonic			
250Hz 1kHz 10kHz		0.19% 0.40% 0.46%	0.35% 0.32% 0.89%			
Crossover		1.6kHz				
Notes: (1) Average over stated B (2) Unweighted Pink nois (3) Long term power han (4) Music mode (5) Cinema mode. For m	e input, measu dling capacity	ured at 1m on axis as defined in EIA - 426B				
A full range of measurem downloaded from www.ta	ients, performa annoy.com	ance data, CLF and Ease	e™ Data can be			
Full independent verificat California can also be ob	tion of publishe tained from the	ed specifications carried e downloads section of w	out by NWAA Labs, www.tannoy.com			
Tannoy operates a policy of new materials or manu published specifications, notice. Please verify the	afacturing meth which Tannoy	nods will always equal or reserves the right to alte	exceed the r without prior			
Ordering Inform	nation					
PART NUMBER	MOD	EL NAME				
8000 5270	Definition	Install iw63 EFX				
	Dominion					

1 x 165mm (6.5") constant directivity Dual Concentric™ 2 x 100mm (4.0") Dual Concentric™ in dipole configuration		
11.5 litre (net total volume), closed and internally braced MDF enclosure		
Textured black paint White powder coated perforated steel grille, foam behind		
Gold plated spring terminals		
Mode selection input (12V DC relay activated via Dinkle connector)		
590 x 345 x 94mm (H x W x D) (23.23 x 13.58 x 3.70 ") (H x W x D)		
Pre-installation mounting frame		
9.50Kg (20.94lbs)		

c mode	 <u> </u>	0 (,
na mode			
3rd Harmonic			
0.30%			
0.61%			
0.17%			
3rd Harmonic			
0.35%			
0.32%			
0.89%			
0.09%			
n Anechoic Chamber			

COLOUR Black

PACKED QUANTITY 1

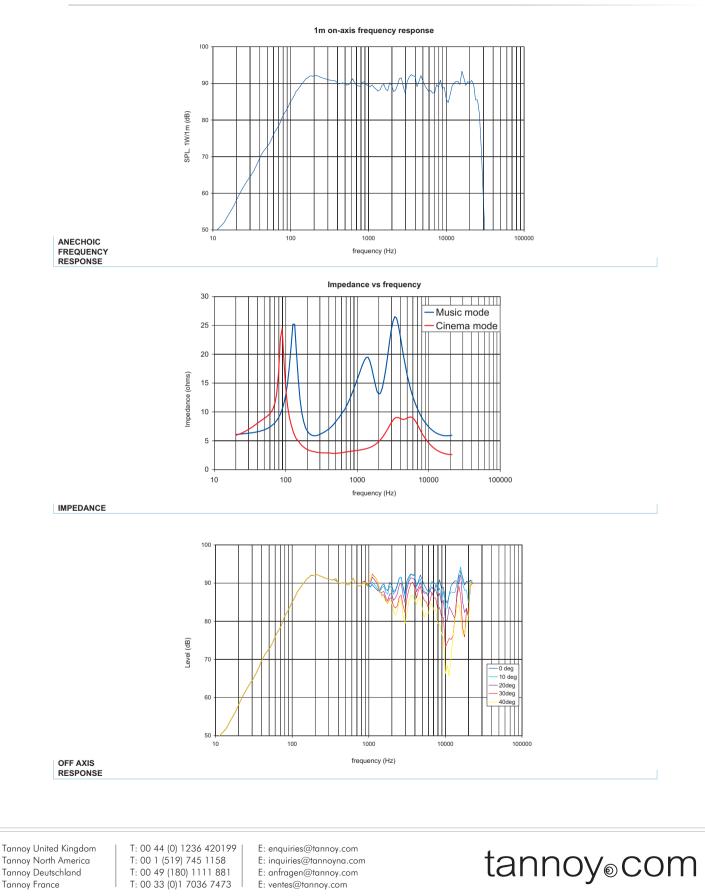
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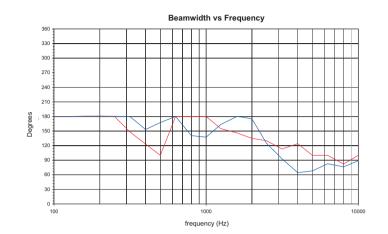
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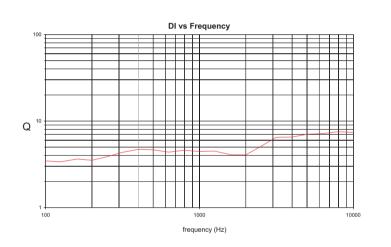
PERFORMANCE MEASUREMENTS



PERFORMANCE MEASUREMENTS



BEAMWIDTH



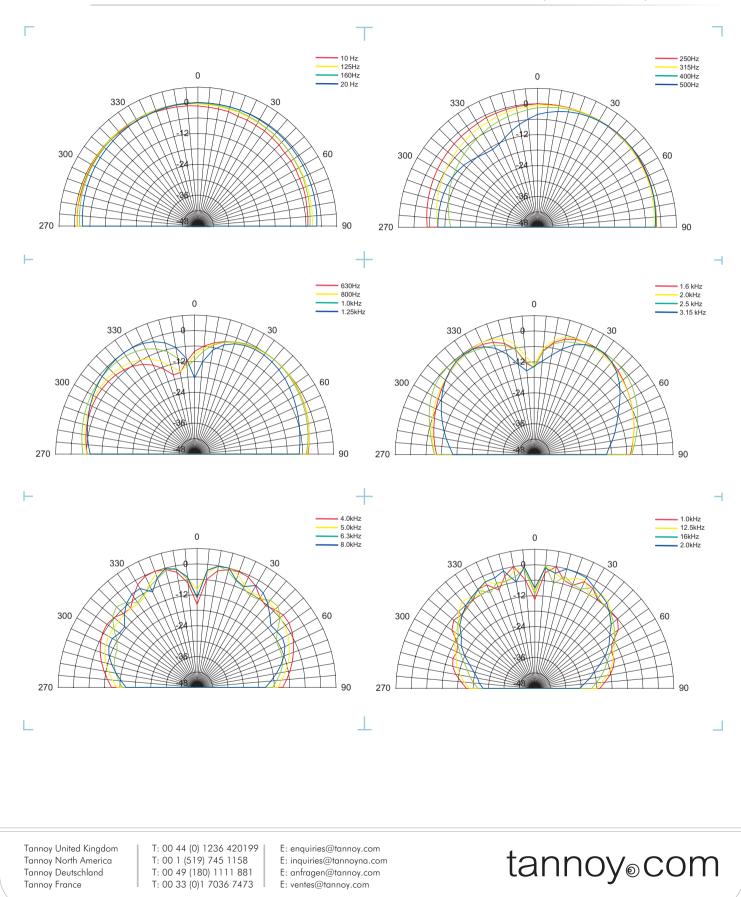
DIRECTIVITY INDEX

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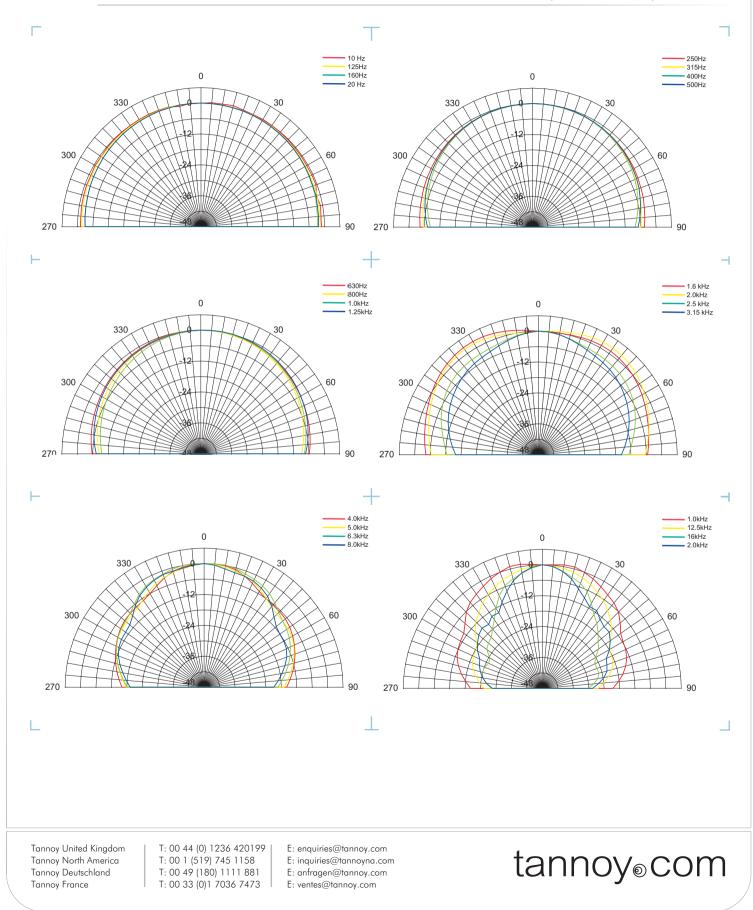
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PERFORMANCE MEASUREMENTS POLAR PLOTS (1/3 OCTAVE)



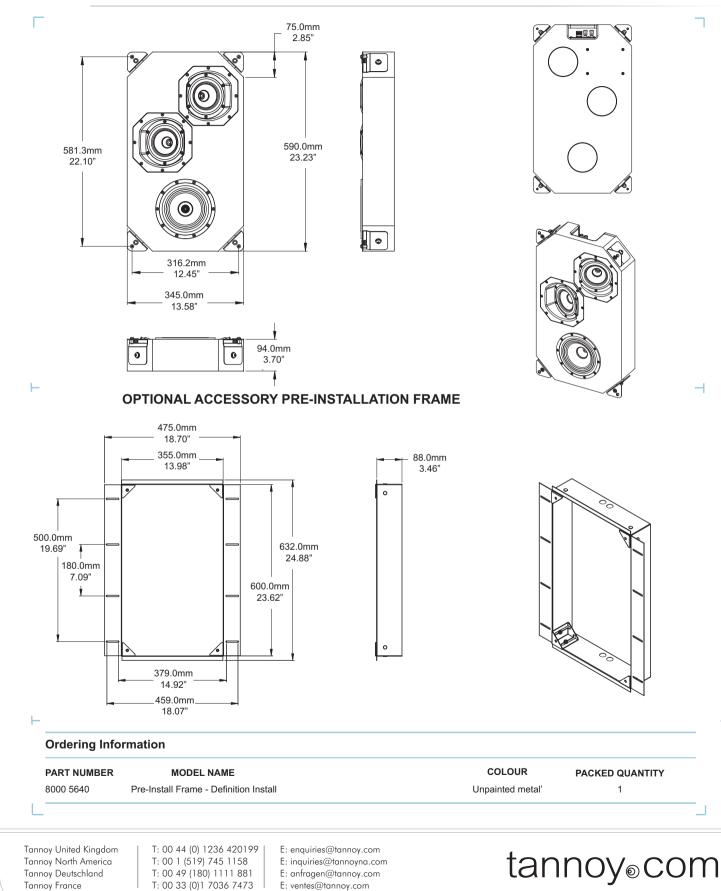
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DIMENSIONAL SKETCHES



Architectural specifications

The loudspeaker shall consist of one 165mm (6.50") full range, point source Dual Concentric™ for Music Mode and two further 100mm (4.00") full range, point source Dual Concentric™ transducers in dipole configuration for Cinema Mode. The low and high frequency elements of the Dual Concentric™ shall be combined by an internal passive crossover network operating at 1.6kHz, with dynamic HF protection.

Performance of the loudspeaker, without any electronic control, shall meet or exceed the following criteria: Frequency range measured at 1 metre on axis with swept sine wave shall be 74Hz to 27kHz. Sensitivity shall be at least 90dB (anechoic) for 2.83 Volts @ 1 metre and shall be capable of producing a peak output level of 116dB (anechoic) on axis at 1 metre. The nominal coverage angles of the loudspeaker shall be 90 degrees conical in music mode and 120 degrees horizontal by 90 degrees in cinema mode. The system shall have a nominal impedance of 8 Ohms in music mode and 4 ohms in cinema mode. The maximum power handling shall be 200 Watts (programme).

The enclosure shall be an optimally tuned 11.50 litre closed MDF construction finished in textured black paint ands supplied with a white powder coated perforated steel grille. Connectors shall be gold plated spring terminals. Controls shall be a mode selection input activated by a 12V DC relay via a Dinkle connector and a polarity switch.

The enclosure shall not exceed the following dimensions: 590 x 345 x 94mm (23.23 x 13.58 x 3.70") (H x W x D).

The in wall loudspeaker shall be the Tannoy... Definition Install iw60 EFX.

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